

[illegible]

```

LL      IIIIII  000000  SSSSSSSS  UU      UU  88888888  77777777  888888  000000
LL      IIIIII  000000  SSSSSSSS  UU      UU  88888888  77777777  888888  000000
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SSSSSS  UU      UU  88888888  77      77  888888  00      00
LL      II      00      00  SSSSSS  UU      UU  88888888  77      77  888888  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LL      II      00      00  SS      UU      UU  88      88  00      00
LLLLLLLL  IIIIII  000000  SSSSSSSS  UUUUUUUUU  88888888  77      77  888888  000000
LLLLLLLL  IIIIII  000000  SSSSSSSS  UUUUUUUUU  88888888  77      77  888888  000000

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```



(3) 137 PURGE DATAPATH

L10  
Sys  
C7  
C7  
CPU  
CRE  
IO  
PR  
PR  
PR  
PR  
PR  
UB  
UB  
UB  
UC  
VE  
VE  
VE  
VE

PS  
---

SA  
WI

Ph  
---  
In  
Co  
Pa  
Sy  
Pa  
Sy  
Ps  
Cr  
As

Th  
44  
Th  
30  
17



```
0000 1 .NOSHOW CONDITIONALS
0000 3 .TITLE L10SUB780 - LOADABLE I/O SUBROUTINES
0000 5
0000 9
0000 13
0000 17
0000 21
0000 22 .IDENT 'V04-000'
0000 23
0000 24
0000 25 *****
0000 26 *
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0000 44 *
0000 45 *
0000 46 *****
0000 47
0000 48 ++
0000 49
0000 50 FACILITY:
0000 51
0000 52 EXECUTIVE, I/O CONTROL ROUTINES
0000 53
0000 54 ABSTRACT:
0000 55
0000 56 I/O SUBROUTINES WHICH CONTAIN PROCESSOR DEPENDENCIES.
0000 57
0000 58 AUTHOR:
0000 59
0000 60 N. KRONENBERG, JANUARY 12, 1979.
0000 61
0000 62 MODIFIED BY:
0000 63
0000 64 V03-012 KDM0096 Kathleen D. Morse 27-Mar-1984
0000 65 Add memory CSR scanning to IOC$PURGDATAP for MicroVAX I.
0000 66 (All DMA MicroVAX I drivers should call this routine, just
0000 67 before calling IOC$REQCOM.)
0000 68
0000 69 V03-011 KDM0081 Kathleen D. Morse 13-Sep-1983
0000 70 Create a version for Micro-VAX I.
0000 71
```

0000	72	:	V03-010	TCM0004	Trudy C. Matthews	4-Jan-1982
0000	73	:		Added 11/790-specific path to IOC\$PURGDATAP.		
0000	74	:				
0000	75	:	V09	TCM0003	Trudy C. Matthews	9-Nov-1982
0000	76	:		Added a .TITLE statement for LIOSUB790.		
0000	77	:				
0000	78	:	V08	TCM0002	Trudy C. Mathews	29-Jul-1981
0000	79	:		Changed all '7ZZ's to '730's.		
0000	80	:				
0000	81	:	V07	TCM0001	Trudy C Matthews	28-Feb-1980
0000	82	:		Changed IOC\$PURGDATAP for NEBULA so that it logs		
0000	83	:		the Unibus Error Summary register itself when there		
0000	84	:		are Unibus errors reported.		
0000	85	:				
0000	86	:	V06	NPK0002	N. KRONENBERG	4-DEC-1979
0000	87	:		REPLACED IOC\$PURGDATAP FOR NEBULA		
0000	88	:				
0000	89	:	V05	NPK0001	N. KRONENBERG	23-AUG-1979
0000	90	:		CORRECTED 11/750 CHECK FOR PURGE DONE.		
0000	91	:				
0000	92	:	V04	TCM0001	Trudy C. Matthews	3-Jul-1979
0000	93	:		Modified IOC\$PURGDATAP for NEBULA.		
0000	94	:				
0000	95	---				



```

0000 97 :
0000 98 : MACRO LIBRARY CALLS:
0000 99 :
0000 100 $ADPDEF : Define ADP offsets
0000 101 $CRBDEF : Define CRB offsets
0000 102 $SEMBETDEF : Define error types.
0000 103 $SEMBUEDEF : Define Unibus Error buffer.
0000 104 $IDBDEF : Define IDB offsets
0000 105 $SPRDEF : Define IPR'S
0000 106 $UBADEF : Define UBA offsets
0000 107 $UBIDEF : Define UBI offsets
0000 108 $UCBDEF : Define UCB offsets
0000 109 $VECDEF : Define CRB/VEC offsets
0000 110
00000001 0000 112 C780_LIKE = 1
00000000 0000 113 C750_LIKE = 0
0000 115
0000 120
0000 125
0000 130
0000 135

```



```
0000 137 .SBTTL PURGE DATAPATH
0000 138 :+
0000 139 : IOC$PURGDATAP - PURGE DATAPATH
0000 140 :
0000 141 : This routine purges the caller's buffered datapath, and clears any
0000 142 : datapath errors. if there was a datapath error, this fact is
0000 143 : returned to the caller.
0000 144 :
0000 145 : INPUTS:
0000 146 :
0000 147 : R5 = UCB address
0000 148 :
0000 149 : OUTPUTS:
0000 150 :
0000 151 : R0-R3 altered
0000 152 : Other registers preserved
0000 153 : R0 = low bit clear/set if transmission error/success
0000 154 : R1 = DPR contents after purge (for register dump by caller)
0000 155 : R2 = address of start of adapter map registers (for reg dump by caller)
0000 156 : R3 = CRB address
0000 157 :-
0000 158
00000000 159 .PSECT WIONONPAGED
0000 160
0000 161 .ENABL LSB
0000 162
0000 163 IOC$PURGDATAP::
53 24 A5 BB 0000 165 PUSHB #^M<R4> ; Save register
52 38 B3 D0 0002 166 MOVL UCB$[CRB(R5),R3 ; Get CRB address
000A 167 MOVL @CRB$[INTD+VEC$[L_ADP(R3),R2 ; Get start of adapter register space
000C 168
000D 169 EXTZV #VEC$[V_DATAPATH,- ; Extract datapath #
0010 170 #VEC$[S_DATAPATH,- ; from CRB
0011 171 CRB$[L_INTD+VEC$[B_DATAPATH(R3),R1
54 40 A241 DE 0010 172 MOVAL UBAS$[DPR(R2)[R1],R4 ; Get address of DPR
64 01 1F 78 0015 173 ASHL #UBAS$[V_DPR_BNE,#1,(R4) ; Purge datapath
0019 174 MOVL (R4),R1 ; Get DPR contents
08 51 1E E1 001C 175 BBC #UBAS$[V_DPR_XMTER,R1,20$ ; Branch if no error
64 01 1E 78 0020 176 ASHL #UBAS$[V_DPR_XMTER,#1,(R4) ; Clear error in DPR
0024 177 CLRL R0 ; Set to return transfer error
0026 178 BRB 30$ ; Join common code
52 50 01 9A 0028 179 20$: MOVZBL #1,R0 ; Set to return transfer success
0800 C2 DE 002B 180 30$: MOVAL UBAS$[L_MAP(R2),R2 ; Return addr of 1st map register
0030 181
0030 182 POPR #^M<R4> ; Restore register
0032 183 RSB ; Return
0033 185
0033 186
0033 214
0033 263
0033 297
0033 298 .DS:adL LSB
0033 299
0033 300 .END
```



L10SUB780  
Symbol table

- LOADABLE I/O SUBROUTINES

D 3

16-SEP-1984 00:43:22 VAX/VMS Macro V04-00  
5-SEP-1984 04:10:05 [SYSLOA.SRC]L10SUB.MAR;1

Page 5  
(3)

C750_LIKE	=	00000000		
C780_LIKE	=	00000001		
CPU TYPE	=	00000001		
CRBSL_INTD	=	00000024		
IOCSPORGDATAP	=	00000000	RG	02
PR\$_SID_TYP730	=	00000003		
PR\$_SID_TYP750	=	00000002		
PR\$_SID_TYP780	=	00000001		
PR\$_SID_TYP790	=	00000004		
PR\$_SID_TYPUV1	=	00000007		
UBASL_DPR	=	00000040		
UBASL_MAP	=	00000800		
UBASV_DPR_BNE	=	0000001F		
UBASV_DPR_XMTER	=	0000001E		
UCBSL_CRB	=	00000024		
VECSB_DATAPATH	=	00000013		
VECSL_ADP	=	00000014		
VECSS_DATAPATH	=	00000005		
VECSV_DATAPATH	=	00000000		

+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes															
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE					
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					
WIONONPAGED	00000033 ( 51.)	02 ( 2.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.06	00:00:01.90
Command processing	106	00:00:00.51	00:00:04.39
Pass 1	267	00:00:04.98	00:00:17.63
Symbol table sort	0	00:00:00.78	00:00:03.98
Pass 2	42	00:00:01.00	00:00:04.20
Symbol table output	4	00:00:00.03	00:00:00.03
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	453	00:00:07.39	00:00:32.16

The working set limit was 1350 pages.  
44289 bytes (87 pages) of virtual memory were used to buffer the intermediate code.  
There were 50 pages of symbol table space allocated to hold 773 non-local and 2 local symbols.  
304 source lines were read in Pass 1, producing 13 object records in Pass 2.  
17 pages of virtual memory were used to define 16 macros.



+-----+  
! Macro library statistics !  
+-----+

Macro library name

Macros defined

-----  
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1  
\$255\$DUA28:[SYSLIB]STARLET.MLB;2  
TOTALS (all libraries)

-----  
9  
4  
13

864 GETS were required to define 13 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:L10SUB780/OBJ=OBJ\$:L10SUB780 MSRC\$:CPUSW780/UPDATE=(ENH\$:CPUSW780)+MSRC\$:L10SUB/UPDATE=(ENH\$:L10SUB)+EXECMLS/LIB



0397 AH-BT13A-SE  
VAX/VMS V4.0

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